

## ABSTRACT OF THE DISCLOSURE.

An economical, flexible, breathable polymer film composite modified in at least one of its surfaces by the formation of pores opening out in a funnel shape at the surface thereof, with a nanoscale particle system and which is particularly suitable for packaging purposes. The modification further includes at least one composite layer construction made from a binding agent layer of chemically inert inorganic nanoparticles and a lining layer of hydrophilic non-toxic metal oxide particles which are photocatalytically active under short wave light radiation and which have an anti-bacterial and self-cleaning effect.

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